Page of 1

Purchase Order Receipt Listing Tuesday, September 12, 2017 1:35:16 PM

All amounts are calculated in domestic currency. All Vendors PO ID PO37671 Receipt Dates from 9/12/2017 to 9/12/2017 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

Book Amt	\$273.39	64.0000 0.0000 0.0000 \$273.39 0.0000
MRB Qty/ MRB Reject	0 0	antity: U/M): antity: Value:
Inspected Qty/ Rejected Qty (PO U/M)	0.0000	Total Received Quantity: Total Qty to Inspect (PO U/M): Total Reject Quantity: Total Receipt Value: Total Balance Due Quantity:
Cost Per Unit/ Recv Value	\$4.27	Total (
Recv Qty (PO U/M)	7 0000 7	
Required Date Recv Required Qty Date/ Recv Emp	9/11/2017 9/12/2017 64.0000 PLOU01	
PO U/M / Stock U/M	Acier Ouellette Inc. A sf 0 Sheet sf	
Project ID Reference/ Description/ Cert Std	UC-CAM002 Acier DAS —M304S18GA 304/316.050 Sheet M138486	
Line Nbr/ Insp Req	or Name 4 D No	
Purchase Order ID/ Curr Type	VendorID(Vendor Name PO37671 4 D CAD No	

2017/09/组

Delivery date

CLI0001056 2017/09/06

Customer N°

Date

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1

DELIVERY - CLIENT ACIER OUELLETTE INC.

DOUT Internal Use Only **OUELLETTE VALLEYFIELD** S Frederic Leboeuf Net 30 Days P037671 Z B/8 Your order N° PCS NB Processed by **Credit Terme** NIR: R-109516-6 EXP Salesman Carrier Page CMD PI2_\$CLB Z/Z Att : CHANTAL LAVOIE Tél.: 613-632-5200 64.00 Total Weight (Lbs): 134.40 Qt/ **Delivery Route** Weight Shipped to , Ontario, Product Description SHEET SS 18G SS304-2B (4 X 8) HAWKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD FESS-18G483042B 1270, ABERDEEN ST. 12x4'x8' Instruction HEAT: Billed to Conditions:

Total (\$CAD)

Verified By: Prepared By:

Delivered Ry

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." to the client. The buyer needs to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods soid. All claims must be made a 25% restocking charge.

Time

Customer's Signature

DELIVERY - CLIENT

<u>.</u>	
UELLETTE IN	du Hâvre
ACIER O	935, Boul. c

Salaberry de Valleyñeld (Québec) J6S 5L1 Tél.: 450-377-4248 Mti: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mti: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD

Billed to

2017/09/08 CL10001056 2017/09/06 PO37671 Delivery date Your order N° Customer N° Date

Processed by

Frederic Leboeuf

OUELLETTE VALLEYFIELD Net 30 Days

Salesman

Credit Terme Carrier

OUT

t: CHANTAL LAVOIE Tél.: 613-632-5200 Credit Terme Net 30 Days	5 Page 1	DOCERT	Oty II/M PCS NB Internal Use Only	200	CMD EXP B/O IN I S C	12 00 pt ¢CiB	
Att : CHANTAL LAV	Instruction F-M Delivery Route		Product Description Weight			1 ROUND SS 3/4 303 RANDOM 18.02	RSS-34303-V

PI_\$CLB

12.00

4.51

ROUND SS 3/8 304 (12R)

7

RSS-38-12

1 X 12' R/L HEAT: W4B3

RSS-34303-V

PIZ_\$CLB

64.00

134.40

SHEET SS 18G SS304-2B (4 X 8)

m

HEAT: CH-3840

1 X 12' R/L

FESS-18G483042B

DAS	10 88	
2X4'X8'	HEAT: OL4V	

11-11-11		CLICIAL	C0000496
3111-111-111-	ACIEK OUELLE INC. 935, Boul. du Hâvre	Customer N°	CL10001056
140	Salaberry de Valleyfield (Québec) 16S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Fxr· 800-667-4248	Date	2017/09/06
	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Delivery date	2017/09/08
		Your order N°	P037671
Billed to DART AEROSPACE LTD	Shipped to	Processed by	Frederic Leboeuf
1270, ABERDEEN ST.	Sister Control	Salesman	
HAWKESBURY, Ontario, K6A 1K7	, Olivailo,	Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Credit Terme	Net 30 Days
Instruction F-M	Delivery Route 5	Page	2
Product Description	Weight	PCS NB	Internal Use Only
4 SHEET SS 20G SS304-28 (4 X 8)	18 64.00 PI	CMD EXP B/O	IN I S C OUT
FESS-20G483042B 3430	i		
2 X 4' X 8'			
HEAT: 160629D02			
5 ROUND CR 5/8 1018 (20R)	20.80 20.00 PI_\$CLB		
RCR-58-20 5350			
1 x 20' r/l			
HEAT: 139624			
1/2 1018 (2	13.36 20.00 PI_\$CLB		
RCR-12-20 5266			
1 x 20' t/l			

CO00049626

DELIVERY - CLIENT

118/12/2	DELIVERY - CLIENT	CLIENT	CO00049626
	935, Boul. du Hâvre	Customer N°	CL10001056
717	Salaberry de Valleyfield (Québec) 16S SL1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4748	Date	2017/09/06
	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Delivery date	2017/09/08
24 70		Your order N°	P037671
ROSPACE LTD	Snipped to	Processed by	Frederic Leboeuf
1270 , ABERDEEN ST.	Circuit	Salesman	
», K6A 1K7	, and a second	Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Credit Terme	Net 30 Days
Instruction F-M	Delivery Route 5	Page	м
Product Description	Weight Oty 11/M	PCS NB	Internal Use Only
HEAT: 916205		CMD EXP B/O	IN I S C OUT
7 FLAT CR 1/4 X 1 1/2 1018 (12R)	15.30 12.00 PI \$CLB		
FCR-14112-12 2731			
1 x 12' q/l			
HEAT: W26482			
8 ROUND 4140 HEAT TREAT 3/4 (20R) R4140-34H-20	4.51 3.00 PI_\$CLB		
HEAT: M52573			
COUPE A LA SCIE	1.00 UN		
SCIE 1			
1 x 3'		-	

NIR: R-109516-6

				Your	Your order No		14757671	•
Billed to	Shipped to						103/8/1	
DART AEROSPACE LTD	•			Proc	Processed by		Frederic Leboeuf	
1270 , ABERDEEN ST.	Ontario			Salesman	man			
HAWKESBURY, Ontario, K6A 1K7	6			Carrier	<u>.</u>		OUELLETTE VALLEYFIELD	
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	E Tél.: 613-632	-5200	Credi	Credit Terme		Net 30 Days	
Instruction F-M	Delivery Route			Page			4	
Product Description	Weight	Oto	M/11		PCS NB		Internal Use Only	
		(4.3)	27.12	CMD	EXP	8/0	IN I S C	TITO
9 ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00	PI_\$CLB					8
HEAT: M56776						-10		
COUPE A LA SCIE	and the same of th	1.00	S					
SCIE 1								
1 X 3'	-							
10 FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610	9.00	20.00	PI_\$CLB					
1 X 20'								
HEAT: 384191				-				
					1			

CO00049626

2017/09/08

Delivery date

CLI0001056 2017/09/06

Customer N°

Date

ACTER OUELLETTE INC. 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J65 5L1 Tél.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mt: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

			C000049626
	ACIER OUELLETTE INC.	Customer N°	C1 10001 056
	Solohorn, do Walte		CETOCOTOO
	Janaperry de Valleyneid (Quebec) 165 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248	Date	2017/09/06
	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Delivery date	2017/09/08
		Your order N°	PO37671
BINEG TO DART AEROSPACE LTD	Shipped to	Processed by	Frederic Leboeuf
1270 . ABERDEN ST.	Single Control	Salesman	
HAWKESBURY, Ontario, K6A 1K7	, Ontario,	Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Credit Terme	Net 30 Days
Instruction F-M	Delivery Route 5	Page	50
Product Description	Weight	PCS NB	Internal Use Only
	423	CMD EXP B/O	
11 FLAT ALU 1/2 X 1 1/2 6061-T6 (20) FAL-12112-20 2465	18.00 20.00 PI_\$CLB	-	
1 X 20'			
HEAT: 66789			
12 FLAT ALU 1 X 5 6061-T6 (12) FAL-15-12 2533	70.49 12.00 PI_\$CLB		
1 X 12'			
HEAT: 201708529			
13 FLAT ALU 1 1/4 X 3 6061-T6 (12) FAL-1143-12 2457	52.87 12.00 PI_\$CLB		
1 X 12'			

CO00049626

DELIVERY - CLIENT

DELIVERY - CLIENT

ACIER OUELLETTE INC. 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) 165 SL1 Tél.: 450-377-4248 Mti: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mti: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD

Billed to

2017/09/08 CLI0001056 2017/09/06 Delivery date Customer N° Date

Frederic Leboeuf Processed by

Salesn

OUELLETTE VALLEYFIELD Net 30 Days

ייייים בי	man	r.	

41	
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ē	

PO37671 Your order N°

Carrie

Credi

Att : CHANTAL LAVOIE Tél.: 613-632-5200

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	_		

9	

2	2000 1000 1000 1000 1000 1000 1000 1000										
Tustruction 1-M	Delivery Route	5		Page	d)		9				
Product Description	Weight	Oto	M/II		PCS NB	18		Internal Use Only	al Use	Only	Γ
				CMD	EXP	8/0	NI	=	0	1	T
HEAT: ES04036								+	+	00	T
14 ROUND ALU 5 6061-T6 (12)	69.12	3.00	PI COLB								
RAL-5-12 5164			יייייייייייייייייייייייייייייייייייייי								
HEAT: Z00020290											
COUPE A LA SCIE		1.00	N								
SCIE 1			5								
1 X 3'											
2 1/4 6061	9.34	2.00	PI_\$CLB								
RAL-214-20 5144											
HEAT: 68252											

1101170		- CLIENT			8
10000	ACIER OUELLETTE INC. 935, Boul. du Hâvre	Customer Nº	۸°	CL10001056	
211	Salaberry de Valleyfield (Québec) 165 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Fxt : 800-657-4248	Date		2017/09/06	
	Fax: 450-377-5696 Mtl; 514-336-4246 Ext.: 866-456-4242	42 Delivery date	ıte	2017/09/08	
Billed to	t pouri	Your order N°	°N	PO37671	
ROSPACE LTD	O poddin	Processed by	by	Frederic Leboeuf	
1270 , ABERDEEN ST.	Circle	Salesman			
HAWKESBURY, Ontario, K6A 1K7	, Gridario,	Carrier		OUELLETTE VALLEYFIELD	ELD
	Att: CHANTAL LAVOIE Tél.: 613-632-5200	Credit Terme	Je	Net 30 Days	
Instruction F-M	Delivery Route 5	Page		_	
Product Description	į	PCS NB	NB	- Internal	3
	M/0 678	CMD EXP	8/0	가	
COUPE A LA SCIE SCIE 1	1.00 UN			1	,
16 ROUND SS 1 1/2 303 RANDOM NS RSS-112303-V 8859	72.11 12.00 PI_\$CLB				
1 x 12' R/L AC9030 - TH - 2017/09/07					
HE4T: 333B					
17 FLAT CR 2 1/2 X 6 1018 RANDOM NS FCR-2126-V 8860	153.00 3.00 PI				

OUT

Internal Use Only

CO00049626

NIR: R-109516-6

1 X 3' AC9031 - GR - 2017/09/07

HEAT: 207H175

DELIVERY - CLIENT

ACIER OUELLETTE INC.

Delivery date Customer N° Date 935, Boul. du Hävre Salaberry de Valleyfield (Québec) 165 5L1 Tél.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mt: 514-336-4246 Ext.: 866-456-4242

2017/09/08

CLI0001056 2017/09/06

		Volle order Mo	
Billed to Share Sh	Chinnod to	on older M	PU3/6/1
ROSPACE LTD		Processed by	Frederic Leboeuf
1270 , ABERDEEN ST.	o's early o	Salesman	
, K6A 1K7	Olivario,	Carrier	OUELLETTE VALLEYFIELD
A	Att : CHANTAL LAVOIE Téi.: 613-632-5200	Credit Terme	Net 30 Days
Instruction F-M D	Delivery Route 5	Page	8
Product Description	Weight	PCS NB	Internal Use Only
	E/0	CMD EXP B/O	TM

Total Weight (Lbs): 797.35 NIR: R-109516-6	site Inc" until payment is made in full, complete and cashed. All lost materials are at the burse's evenence. The unstanding the factor of
	All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, co

*Acier Ouelette Inc." is the same as offered and rootoed by the careful and his warranty offered by following conditions: Net 30 days from billing date and rootoed by the manufacturer and his warranty is transferred by "Acer Duellette Inc." to the client. The bayer's cropers to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in within five (5) days with this document enclosed. Any merchandrise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to	Delivered By:	
some as offered and room days from billing date and Il lead to payment by acci document enclosed. Any	Verified By:	
"Acier Ouellette Inc." is the s following conditions: Net 30 respect with his contract will within five (5) days with this a 25% restocking charge.	Prepared By : Verified By :	

Total (\$CAD)

0

Date

Customer's Signature

740 Imperial Road North NAS

METALLURGICAL TEST REPORT

47305 = North American Stainless Canada Inc. 740 Imperial Road North Guelph, ON NIK1Z3 Canada

Date: 10/22/2015

Page:

Steel: 303

Finish: CD

Correston:

NAS Order: PN 0056401 02 ASTM A582/12 EN 10204 3.1, ASTK A484/11 AMS 5640U TYPE 1, QQS-764B CONDITION A SOLUTION ANNEAL TEMP 1900F MIN DESCRIPTION: Round Bar, Annealed, Cold Draw 770967 PRODUCT Your Order:

IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION 2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG COMPLIES W/REQUIREMENTS OF DFAR 252,225-7009 EU DIRECTIVE REMARKS:

9	
Pieces Commodity Code	71460945
Mark	
Length Mark Places Commodity C	144.00
Weight	1,151
Size	
d # Diameter	.7500
Id Ski	
Product	BH4444

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323 CM(Country of Melt) ES(Spain) US(United States) ZA(So ANALYSIS CHEMICAL

		$\overline{}$	_	_	_	_	-
Chemical Analysis per ASTM A751/08							
Chemical		% D4	.0310				
		NI %	.0532 8.3575				
JP(Japa	1		0532				
Africa)	1	Z	1				
ZA(SOUTH	2002	120 %	.2720				
Calchamy as(United States) ZA(South Africa) JP(Japan)	ANN &	N N N N N N N N N N N N N N N N N N N	.3305 1.7960				
colobally not	CD %						
(CR %		17.2850				
	% 00		.1185		SIS	.4945	
	ر پ		.0473		e? to	.3495	
	8	1	20				
	HEAT	MEBS					

OPERTIES or, щ MECHANICAL

	4						
Froduct 1d	-4 H	HB No.	.2YS KSI	TES	ZA.	Elng % 4D	
BH4444 0	2 8	222.0	82.69	82.69 102.54	34.29	23.26	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr. ABHIJEET BHAVE

10/22/2015



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

SO SOM : NOW CHITESCATE Ma. ON 100 STATES

ADM OFFICE BLE

Tel.: 91-22-662000001. Perc: 91-23-66290025/34

L/c No: L/c Date: WORKS: Plot No. SS, C. L D. C., Umburg

Dart Valend, Copusat - 304 171.

Tel.: 91-240-358 9999 Pex.: 93-240 300 9072

Beneff : exports@chandended not

FR24 QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

Test Certificate No. : EDP/00337 - 13/2016-2017

Date of Issue

: 08.07.2016

P. O. No.

: P004712

SC_No. & Date

: 15-16/00924, Dt. 13.04.2016

Invoice No. & Date : EXP/00337/2016-17 Dt.08.07.2016

PRODUCT DESCRIPTION	
STAINLESS STEEL ROUND BARS	

LENGTH Net WL Ordered Actual 6458 LBS. 12'-12% 12'-12%

Heat No.	AISI/DIN	mm/inches	Tolerance	Process Route
CH-3840	304/304L 1.4301/1.4307 UNS#\$30400/\$30445	3/8" /	169	Electric Melting, A.O.D. Refining, Continuous Casting,
		CHEMICAL O	OMPOSITION (Weigh	t %)

			C	HEMICAL	COMPOSITI	ON (Welg	ht %)			
С	SI	Min	P	5	C _r	Mo	NI	Cu	Co	N
-		•		-	18.00	1 -	8.00	-	1 - 1	
0.030	1.00	2.00	0.045	0.030	20.00	1.00	10.50	1.00	1.	0.1000
0.019	0.42	1.71	0.000	0.020	18.21	0.32	8.05	0.41	0.10	0.0690
	- 0.090	0.080 1.00	 0.080 1.00 2.00	C Si Min P 0.080 1.00 2.00 0.045	C Si Min P 5 0.080 1.00 2.00 0.045 0.080	C SI Min P S Cr 18.00 0.080 1.00 2.00 0.045 0.080 20.00	C Si Min P 5 Cr Mo 18.00 0.080 1.00 2.00 0.045 0.080 20.00 1.00	C SI Min P S Cr Mio NI 18.00 - 8.00 0.080 1.00 2.00 0.045 0.080 20.00 1.00 10.50	C SI Min P S Cr Mio NI Cu 18.00 - 8.00 - 0.080 1.00 2.00 0.045 0.080 20.00 1.00 10.50 1.00	18.00 - 8.00

MECHANICAL PROPERTIES

		Test 1	dethod :- EN 190 68	92-1			Test Method	Charpy V	" Notch	Immed
Specified Values	Proof St	- 1	Tennile Strength	Elangation after	Reduction	EN ISO	Timed (2000)	e per DIN I	NBOL	
Values	N/mm²	/MPa	N/mm²/MPa	Practure A	of Area	6506-1		iemple Siz mp. :- 20 ⁰		1
	0.2%(Rp0.2)	1%(Ep1.0)	(Pom)	%	%	(BHN)	I	11	Ш	AVE
Results	- 514	560	712	47	65	215-218	N.A.	N.A.	N.A.	N.A.

- 1. Cold drawn & Centreless Geound.
- 3. PMI test done 100% & found Setisfactory.
- 5. Material is free from mercury contumination.
- Inter-Granular Corrosion Test as par ASTM A262 15 (Pr.E) satisfactory.
- No welding or weld repairs were performed on this material while in our possession.
- 8. Micro structure reveals- equiested grains of Austrolia & free from cartide Precipitation.
- 9. Grain size No. 7-8 of ASTM as par H112-96.

10.The material Conforms to ASTM A276-15, ASTM A182/A182M-15, ASME SA 182/SA 182M-13, ASTM AA79/AA79M-15

ASME SA179/SA-479M-15, ASTM A193/A193M-12b B8 - CL1, ASME SA193/SA193M-13 B8 - CL1,

ASTM AS20/AS20M-11 B8 CLL, AS90B SAS20/SA S20M-10 B8 CLL, AMS-QQ-6-763B COND A, AMS - 5639H, AMS - 5647H,

EN 10098-3 : 2014 & DIN EN 10272-2008 Specification.

11. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round.

12. Mariding details - Company Logo, Size, Grade & Heat No.

13. The material is manufactured /mult in Chandan Steel Mill and is of Indian Origin.

BUNDLENO .: 47 to 51

COLOUR: RED

2. Solution amnealed at 1050 °C.

4. Material is free from radio-active contamination.

B. S. RAUTELA

MANAGER - QUALITY ASSURANCE

It is hamby certified that the above ruralis are true and correct in every details and are mosting the requirements of specification & purchase ord



Item-SBR

井3年5

22150584981-55-34

MAS

North American Stainless Canado Inc. 740 Imperial Road North Guelph, ON NIKIZ3

METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Cortificate: 253625 2

Customer: 007035 021

·Canada

Date: 1/10/2017 Steel: 304/304L

Pager

Finish: 2B

Corrosion: ASTM A262/15,180Bend-OX

788462

NAS Order: DE 0011167 01 STATEMENT STEEL COIL, C.R. ANNEALED & PICKLED. UNS 30400/30403 ASTM A240/15b, A480/15, A666/15, A880 SA240/15, SA480/15, SA666/15 NANUFACTURED IN MALAYASIA DESCRIPTION: PRODUCT Your Order!

REMARKS: Mat'l is Free of Mercury Contamination. No wold repairs. Steel Making Process: EAF, AOD, & Cont. Casting Product Mfg.by a Quality Wgt.Sys. in Conf. w/150 9001 Material is Free of Radioactive Contamination EN 10204:2004 3.1; RoHS 1 & 2 Compliant

110L4V A00304 63A .0450 48.0296 24,908 COXL 1 1 74261496	Product Id	Supplier Id	Skid # Thickness	ss Nidth	Weight	Longth	Mark	Longth Mark Piecos Commodity Code	
A00304 63A .0450 48.0296 24,908 COIL 1 1 7				P					
	110L4V	A00304 63A	70.	50 48.0296	24,908	COIL	rł	1 74261496	

CM(Country of Melt) ES(Spain) US(United States) ZA(9outh Africa) JP(Japan) ANALYSIS CHEMICAL

PROPERTIES MECHANICAL

Product 1d	Product id Supplier id	400	UTS 3	0C .2%	15 20C	ACC .2% YS 20C FLONG % HArd KSI %-2" RB	* Kar		Tail Hard
110L4V	A00304 63A	E	95.72	46.59	6	48.00	80	85.00	86.00

NAS hereby certifles that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the itoms tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Mgr. Technical

KRIS LARK

1/11/2017

DAS 9-89

MILL TEST REPORT

DATE:2016-7-31 Invoice No.SECAB26503TD5

CERTIFICATE NO.:PPCNQC6506TD5

MADE IN CHINA

GOODS: STAINLESS STEEL COLD ROLLED COILS 2B FINISH, AS PER AISI 304 PRIME QUALITY,

SLITTING EDGE WITH PAPER INTERLEAVED.

PRODUCING MILL: YONGJIN TYPE: 304

YPE: 304	-	ASTMA240/48(SPEC: ASTMA240/480, ASME SA240/480							MIT OF	PO NITMBER C16960
Ç.			;					Mechanic	Mechanical Properties		
Ċ	Surrace	Heat No.	Coil No.	DIMENSIONS	SNC	Weight (MT)	T.S	Y.S	Elong		State
							(N/mm²)	(N/mm²)	%	nardness	
-	2B	160612C11	YJJ16Z0S996A	0.024 INCH X 48.00 INCH X COIL	NCH X COIL	9.648	179	270	58	159/161/162	ナンション
7	2B	160625B01	YJJ16Z05945A	0.030 INCH X 48.00 INCH X COIL	NCH X COIL	9.241	069	279	56	167/167/168	Prench
3	2B	160629D02	YJJ16Z05961A	0.035 INCH X 48.00 INCH X COIL	NCH X COIL	7.010	069	280	55	167/168/169	P554953
4	2B	160629D02	YJJ16Z0Z91LLY	0.035 INCH X 48.00 INCH X COIL	NCH X COIL	7.084	069	280	55	167/168/169	PSSYSSY
5	2B	160629D02	YJJ16Z0S961B	0.035 INCH X 48.00 INCH X COIL	NCH X COIL	6.915	069	280	55	167/168/169	Philos H
OTAL:						39.898					000
ON				0	CHEMICAL COMPOSITION %	4POSITION %					
	O	Si	Mn	Ь	s	ర	ž	z	Mo	Ħ	ĵ
-	0.036	0.43	1.16	0.026	0.004	18.15	8.06	0.050	0.024	,	0.08
2	0.044	0.39	1.06	0024	0.002	18.34	8.01	0.051	0.004		0.02
3.	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	,	0.03
4	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	1	0.03
5 .	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	,,	0.03
MARKS	We hereby c	ertify that the m	naterial described her	MARKS We hereby certify that the material described herein has been manufactured and tested with	ured and tested w	vith			Quality Dept	-	
	satisfactory	results in accord	satisfactory results in accordance with the requirements	ements of the material specification.	specification.					Seter	

RCR-58-20



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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#5 TRA 1469 535 4/8493 38

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704 Delivery Note Nr.

CLIENTE CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASIM A 108

Parchase Order	DESCRIPCIÓN DESCRIPCIÓN	KGS.	TOLERANCIA	OF.	MEDIDA .
PAR-47152	121.14 HEX. ESTIRAIXO 31,75 (1 1/4")	996	- 0.076	915907	31,75
PAR-47472	12I.14 RED. ESTIRADO 50,80 (2")	1.034	- 0,076	916489	50,80
PAR-47851	12L14 RED. ESTIRADO 50,80 (2")	1.090	0,076	916489	T THE PARTY OF THE
PAR-47851	1018 RED. ESTIRADO 31,75 (1 1/4")	994	- 0.051	139211	50,80
MJP-47856	12L14 RED. ESTIRADO 25,40 (1")	3.000	- 0,051	139256	31,75
PAR-47786	1018 RED. ESTIRADO 30,16 (1 3/16")	1.090	0,051	139297	25,40
PAR-47786	12L14 RED. ESTIRADO 19,05 (3/4")	2.002	- 0,051		30,16
MTP-47861	12L14 HEX. ESTIRADO 31,75 (1 1/4")	994	- 0.076	202433	19,05
OU-47812	1018 KED. ESTIRADO 9,53 (3/8")	1.040		215907	31,75
M-47572	1018 RED. ESTIRADO 9,53 (3/8")	1.040	0,051	139333	2,53
M-47572	1018 RED. ESTIRADO 31,75 (1 1/4")		- 0,051	139477	9,5.1
OM-47672	1018 RED. ESTIRADO 31,75 (1 1/4")	1.988	- 0,051	139481	31,75
00-47832	12L14 RED. ESTIRADO 19,05 (3/4")	1.990	- 0,051	13954?	31,75
U-47832	1018 RED. ESTIRADO 15,88 (5/8")	1.998	- 0,051	202313	19,05
VI 47822-		2.004	- 0,051	139624	15.88
	1018 RED. ESTIRADO 31,75 (1 1/4")	996	- 0,051	139627	31.75
MJP-47896	1018 RED. ESTIRADO 15,88 (5/8")	7.010	- 0,051	139776	15,88

Composición química de la colada / Chemical Analysis of Heat

MED		OF	COLADA	%	% C-	%	%	%	%	%	%	%	%
			Cast Nr.		Cr	Cu	Mn	Mo	Ni	P	Pb	5	Si
31,75		915907	39680 W	0,070	0,090	0,230	1,110	0,030	0,110	0.051	0,210	0,329	0,020
50,80	0,00	916489	41232 IS	0,060	0,000	0,000	1,120	0,000	0,000	0.043	0.220	0.318	0,010
50,80	0,00	916489	41232 IS	0,060	0,000	0,000	1,120	0,000	0.000	0.043	0,220	0,318	0.010
31,75	0,00	139211	41410 AG	0,165	0,000	0.000	0.758	0,000	0,000	0.016	0,000	0,021	0,220
25,40	0,00	139256	41300 AG	0,060	0.086	0,014	1,130	0,006	0,023	0,063	0,300	0,310	-
30,16	0,00	139297	41411 AG	0,165	0,000	0.000	0,758	0,000	0,000	0.016	0.000	0,021	0,003
19,05	0,00	202433	41406 AA	0,071	0.046	0,019	1,085	0.004	0,029	0,060	0,295	0,292	0,220
31,75	0,00	915907	39680 W	0.070	0.090	0,230	1,110	0,030	0.110	0,051	0,210	THE REST. SHAREHAY MATERIAL TO COLUMN	0,008
9,53	0,00	139333	41460 GM	0.160	0,000	0.000	0,750	0.000	0,000	0,021	0,000	0,329	0.070
9,53	0,00	139477	41460 GM	0.160	0.000	0.000	0,750	0,000	0,000	0,021	0.000	0,032	0,160
31,75	0,00	139481	41410 AG	0.165	0.000	0,000	0.758	0.000	0,000	0,016	7.740.000	0,032	0,160
31,75	0,00	139547	41410 AG	0.165	0,000	0,000	0,758	0,000	0,000	10 met 2 met	0,000	0,021	0,220
19,05	0.00	202313	41406 AA	0.071	0.046	0,019	1,085	0.004	0,029	0,016	0,000	0,021	0,220
15,88	0.00	139624	41508 G	0,160	0,000	0,000	0,650	0.000	The second secon	0,060	0,295	0,292	0,008
31,75	0.00	139627	41410 AG	0,165	0,000	0.000	0,758	-	0,000	0,021	0,000	0,023	0,142
15,88	0,00	139776	41508 G	0,160	0,000			0,000	0,000	0,016	0,000	0,021	0,220
71221	-100		71300 U	1,100	0,000	0,000	0,650	0,000	0,000	0,021	0.000	0,023	0.142

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN Delivery Note Nr.

Norma: EN 10277

47704

CLIENTE.

LES ACIERS TRANSBEC (1997) LTÉE

CUSTOMER

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strenght N/mm2	Lim.elástico Yield point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %
31,75	915907	39680 W	533,38	523,05	12,04	169,00	45,79
50,80	916489	41232 IS	515,66	509,28	16,20	178,00	53,91
50,80	916489	41232.IS	515,66	509,28	16,20	178,00	53,91
31,75	139211	41410 AG	558,02	536,07	36,40	159,00	57.29
25,40	139256	41300 AG	556,11	543,10	19,46	159.00	46,32
30,16	139297	41411 AG	551,06	525,36	37,06	165,00	59.43
19,05	202433	41406 AA	584,38	568,82	16,86	172.00	47,83
31,75	915907	39680 W	533,38	523,05	12,04	169.00	45,79
9,53	139333	41460 GM	735,60	691,90	12,70	216,00	59.96
9,53	139477	41460 GM	735,60	691,90	12,70	216,00	59,96
31.75	139481	41410 AG	558,02	536,07	36,40	159,00	57,29
31,75	139547	41410 AG	558,02	536,07	36,40	159,00	57,29
19,05	202313	41406 AA	584,38	568,82	16,86	172,00	47,83
15,88	139624	41508 G	602,29	574,24	20,18	176,00	60,19
31,75	139627	41410 AG	558,02	536,07	36,40	159,00	57,79
15,88	139776	41508 G	602,29	574,24	20,18	176.00	60,19

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
12L14 RED. ESTIRADO 50,80 (2")	916489	2
12L14 RED. ESTIRADO 50,80 (2")	916489	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139211	3
12L14 RED. ESTTRADO 25,40 (1")	139256	3
1018 RED. ESTIRADO 30,16 (1 3/16")	139297	2
12L14 RED. ESTIRADO 19,05 (3/4")	202433	3
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
1018 RED. ESTIRADO 9,53 (3/8")	139333	2
1018 RED. ESTTRADO 9,53 (3/8")	139477	2
1018 RED. ESTTRADO 31,75 (1 1/4")	139481	3
1018 RED. ESTIRADO 31,75 (1 1/4")	139547	3
12L14 RED. ESTIRADO 19,05 (3/4")	202313	3
1018 RED. ESTIRADO 15,88 (5/8")	139624	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139627	3
1018 RED. ESTIRADO 15,88 (5/8")	139776	



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN Delivery Note Nr. 47704

CLIENTE

LES ACIERS TRANSBEC (1997) LTÉE

CUSTOMER

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

Observaciones: BARRAS DE ACERO ESTRIADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido. QUALITY DEPARTMENT: Certify that the product fulfils the order specifications...

Fecha/Date: 08/06/2017

Firmado: Susana Fernández Directora de Calidad



Sistema de Gastión SO 9001:2008

TAA 1242 #6.



ARANA Y LUPARDO, 2 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

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Nº CERTIFICADO / CERTIFICATE NR.: 46977

ALBARAN 46977 Delivery Note Nr.

CLIENTE CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTMATOR

Nº PEDIDO	PINCERPCION Mempley	KGS.	TOLERANCE	OF	MEDIDA Measurement
OU-47007	1018 CUA. ESTIRADO 12,70 (1/2")	960	-0,110	916205	12.70
OU-47007	1018 CUA. ESTTRADO 50,80 (2")	1,204	- 0,190	138237	50.80
MUP-47224	1018 RED. ESTIRADO 25,40 (1")	2.006	0.051	138229	25.40
PAR-47152	1018 CUA. ESTIRADO 50,80 (2")	2.400	0.190	138236	50,80
PAR-47472	1018 CUA. ESTIRADO 38,10 (1 1/2")	834	- 0.160	916334	38,10
PAR-47472	1018 CUA. ESTIRADO 12,70 (1/2")	980	-0.110	916205	12,70
PAR-47472	1018 CUA. ESTIKADO 50,80 (2")	1.204	-0,190	138491	50,80
PAJ-47284	1018 CUA. ESTIRADO 6,35 (1/4")	1.000	- 0,090	915673	
PAJ-47284	1018 CUA. ESTIRADO 12,70 (1/2")	1,218	- 0,110	916205	6,35
PAJ-47284	1018 CUA. ESTIRADO 50,80 (2")	1.198	- 0.190	138520	12,70
PAR-47490	1018 RED. ESTIRADO 25,00	4.960	- 0.051	138774	50,80
OU-47436	1018 RED. ESTERADO 12,70 (1/2")	1.086	- 0,051	138832	25,00
VI-47383	1018 CUA. ESTIRADO 6,35 (1/4")	992			12,70
VI-47383 ·	1018 CUA. ESTIRADO 25,40 (1")		- 0,090	915673	6,35
CA-16398	1018 CUA. ESTIRADO 50,80 (2")	633	- 0,130	916070	25,40
PAR-47756	1018 CUA. ESTIRADO 25,40 (1")	1.196	- 0,190	139048	50,80
MJP-47531		1.020	- 0,130	916070	25,40
MJP-4/331	1018 CUA. ESTIRADO 6,35 (1/4")	992	- 0,090	916198	6,35

Composición química de la colada / Chemical Analysis of Heat

	PETENT	OF	COLADA Cast Nr.	% C	% Mn	% P	% S	% SI
12,70	0,00	916205	41079 \$	0,161	0,802	0,006	0,023	0.268
50,80	0,00	138237	41336 C	0,150	0,710	0,012	0.012	0,160
25,40	0,00	138229	41198 G	0.160	0,630	0.007	0,010	0,136
50,80	0,00	138236	41336 C	0,150	0,710	0.012	0,012	0,160
38,10	0,00	916334	40753 C	0,190	0,790	0,019	0,017	0,200
12,70	0,00	916205	41079 S	0,161	0,802	0,006	0,023	0,268
50,80	0,00	138491	41336 C	0,150	0,710	0,012	0,012	0.160
6,35	0,00	915673	40073 G	0.150	0,770	0,007	0.026	0,235
12,70	0,00	916205	41079 S	0,161	0,802	0,006	0,023	0,268
50,80	0,00	138520	41336 C	0,150	0,710	0,012	0,012	0,160
25,00	0,00	138774	41198 G	0,160	0,630	0.007	0.010	0,136
12,70	0,00	138832	41218 GM	0,160	0,720	0,013	0.012	0.170
6,35	0,00	915673	40073 C	0,150	0,770	0,007	0.026	0,235
25,40	0,00	916070	40439 SR	0,180	0,760	0,017	0,028	0,220
50,80	0,00	139048	41336 C	0.150	0,710	0,012	0.012	0,160
25,40	0,00	916070	40439 SR	0,180	0,760	0,017	0,028	0,220
6,35	0,00	916198	40073 G	0,150	0,770	0.007	0,026	0,235

Características mecánicas / Mechanical propertius



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

N° CERTIFICADO / CERTIFICATE NR.: 46977

3.1

46977

CLIENTE CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Delivery Note Nr.
Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

ALBARAN

Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strenght N/mm2	Lim.elástico Yield point 0,2% N/mm2	Alargamiento Elongation Lo-50 mm.	Dureza IIB Hardness 11B	Estricción %
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138237	41336 C	515,00	330,00	34,00	0,00	0,00
25,40	138229	41198 G	566,93	548,05	26,50	172,00	54,84
50,80	138236	41336 C	515,00	330,00	34,00	0,00	0,00
38,10	916334	40753 C	500,00	330,00	32,00	0,00	0,00
12,70	916205	41079 S	600,76	559,59	15,12	190.00	0.00
50,80	138491	41336 C	515,00	330,00	34,00	0.00	0.00
6,35	915673	40073 G	822,40	791,50	7,94	258,00	47,07
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138520	41336 C	515,00	330,00	34,00	0,00	0,00
25,00	138774	41198 G	621,60	600,60	14,14	185,00	52,83
12,70	138832	41218 GM	555,00	0,00	30,60	0,00	0,00
6,35	915673	40073 G	822,40	791,50	7,94	258,00	47,07
25,40	916070	40439 SR	511,00	358,00	33,30	0,00	0,00
50,80	139048	41336 C	515,00	330,00	34,00	0,00	0,00
25,40	916070	40439 SR	511,00	358,00	33,30	0,00	0,00
6,35	916198	40073 G	822,40	791.50	7,94	258,00	47,07

Calidad Superficial

EN 10277-1	DESCRIPCIÓN Description	OF	Clase
			EN 10277-1
		1	

Observaciones: BARRAS DE ACEROE STIRADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD:Certifica que el mencionado producto cumple con las especificaciones del pedido.

QUALITY DEPARTMENT:Certify that the product fulfils the order specifications.

Fecha/Date: 24/04/2017

Firmado: Susana Fernándoz

Directora de Calidad



Sistema de Gustión ISO 9001:2008

ED 1100000000



CERTIFICATE OF CONFORMANCE

AMERICAN BAR PRODUCTS 3600 Michigan Ave, Unit 1 East Chicago, IN 46312 p (215) 957-0500 - f (215) 957-6345

TAG NO.	70918	SHIPPING DATA	
PO #:		BILL/LADING #:	34348
HEAT:	b 97699 W26482	B/L DATE:	11-Jan-17
GAUGE	0.25	Production data	
WIDTH	1.500	OPERATOR	richy roades.
LENGTH	146	DATE	ricky sanders
WEIGHT	1,590	MACHINE	11-Jan-17
PART # / IAC#:	v-731371	MACHINE	LINE 3
GRADE:	C-1018 CF FLAT BAR		
MILL DATA		CHEMISTRY	
HEAT:	W26482	C	0.1900
MILL COIL #:	K7774831	Mn	0.7800
MELT/ROLL MILL:	US Steel	P	0.0060
GRAIN SIZE PRACTICE:	ALUMINUM KILLED	S	0.0040
REDUCTION:	40:1	Cu	0.0040
O TO MILL:	42461	Ni	0.0100
WORK ORDER #:	126974	Cr	0.0400
SERIAL NO:	12357622	Mo	0.0080
CUSTOMER PO#:	225889	V	0.0010
Melt & Manufacture	USA	Al	0.0340
OTHER PRODUCT DATA:		Cb	0.0340 na
		N	0.0070
		c :	5.5070

C-1018 COLD FINISHED FLAT BAR MEETS PROPERTIES OF ASTM A29 MEETS PROPERTIES OF ASTM A108-13

GRAIN: ASTM E112, FINE GRAIN: 8/9, 128 GRAIN/IN2 AT 100X MAGNIFICATION REDUCTION RATIO 20/1 MIN. STRAND CASTING, NO WELDING OR WELD REPAIR

WE HEREBY CERTIFY THE ABOVE FIGURES ARE ACCURATELY STATED THE ABOVE FIGURES ARE TRACEABLE IN OUR RECORDS BACK TO THE PRODUCER AND/OR TO AN ACCREDITED TEST LABORATORY, ALL PHYSICALS MINIMUM

WE HEREBY CERTIFY THAT THIS PRODUCT DOES NOT CONTAIN LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS (PBD), POLYBROMINATED DIPHENYL ETHERS (PBDE)

HEAT ANALYSIS IS FROM THE PACKING LIST RECEIVED FROM OUR RAW MATERIAL SU

DFARS COMPLIANT

PRODUCED IN USA 3

QUALITY CONTROL

Si

0.0080

GERDAU SPECIAL STEEL NORTH AMERICA 5591 NORRILL ROAD JACKSCH, MEGHIGAN 49101

24.95

11/05/13 CERTIFIED MATERIAL TEST REPORT

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	3	EMICAL	CHEMICAL ANALYSIS	ທ					
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0.002 0.002									
GRAIN SIZE	SPECIFICATION ASTM E112	N ASTM	E112	a i	FINE GRAIN 5-8	8 - S N			
HARDENABILITY	SPECIFICATION ASTM A255/A304	N ASTM	A255/A3	04					
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DI CALCULATION	SPECIFICATION CAT 1E0024	N CAT 1	E0024						
5.07									
REDUCTION RATIO	SPECIFICATION ITEM 1012462	N ITEM	1012462						
RATIO= 31.5 TO	1.0								
We certify that	PAGE 1 was those data are correct and in compliance with specified requirements.	orrect a	nd in co	mplian	ce with	speci	fied	requir	ements.
Gerdau Monroe					wind	ゴ	AGA	Wen	(Ling) LAGE Wendy J. Craig
Tearto Steam Chicago									

Monroe, MI 48161 CONTINUED ON PAGE 2

GD GERDAU

DAC

GERDAU SPECIAL STEEL NORTH AMERICA 5591 NORMILL ROAD JACKSON, MICHIGAN 49201

JACKSON, MICHIGAN TITLE

	283416 101 11/05/13
CERTIFIED MATERIAL TEST REPORT	MS2573 Danieli
CERTIFIED MATER	1012462/4140EFVD
	142324

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agrad	3/4" RI	RND 20' 2"	T
4140	Carcums sactor	12; A322-07	1
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ASTM E381 MACRO ETCH SATISF S5/05 RATING (WORST FIELD): ** MATERIAL 100% MELTED AND ARC FURNACE AND CONTINU BEEN REPAIRED BY WELDITO MERCURY OR TO ANY CTEMPERATURES DURING PROCEEDUCTS SHIPPED ARE FRE	ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1; MEETS SAE J422 S5/05 RAING (WORST FIELD); ** MATERIAL 100\$ MELTED AND MANUFACTURED IN THE U.S.A. BY THE ** MATERIAL 100\$ MELTED AND MANUFACTURED IN THE PRODUCT JAC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT SEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN TO MERCHY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID A TO MERCHY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID TO SERPATURES DURING PROCESSING OR WHILE IN OUR POSSESSION. TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION. PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.	ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1; MEETS SAE J422 S5/OS PATING (WORST FIELD); ** MATERIAL 100¢ MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ** MATERIAL 100¢ MELTED AND MANUFACTURED IN THE PRODUCT HAS NOT ARC FURNACE AND CONTINUOUS CASTING METHOD. THE NOT BEEN EXPOSED BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TO MERCURY OR NO ANY OTHER METAL ALLOY THAT SOF STEEL TO ENSURE THAT SERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.	
2000		moselfied requirem	ot s.
We certify that	these data are correct and 1	We certify that these data are correct and in compilation with the wordy J. Cralgan Monroe	Cralg
3000 East Front Street	reet	Quality Assertable Representative	
Monroe, MI 48161			

The ELOSE Products, NC. The (200) 870-8150 The (200) 870-8150 Containers: \$7521276 \$725286 Customer Part No: 101248-001 Part No: 14029-173733 Customer Part No: 101248-001 Part No: 14029-173733 Customer Part No: 101248-001 Part No: 14029-1747-1748-00 Part No: 14029-1748-00 Part Information Part	1111	1	M AOI	IOR MATERIAL CERTIFICATION
Job No: 344313 Job Information Certified Data: 127/13 Container: 57521276 \$752596 Ship To: Dhe Ship To: Dhe Taylor, Mi 48180 Customer Part No: 1012483-001 Customer Part No: 1012483-001 Customer Po No: 143438-753733 Alloy - Temper: 4140 Part Information Part Information Test Results Customer Specification Test Results Alloy - Temper: 4140 Alloy - Temper:				
Containers: \$7521276 \$7525286 Customer Part No: 1012483-001 Customer Po No: 1012483-001 Part No: HRB 4140 7507240 G&T ES Part Group: HT TOLL Piece Weight: 30.659 Applicable Specification Type Applicable Specification Type Applicable Specification Type Applicable Specification Test Results Customer Specification Test Results Customer Specification Test Results Customer Specification Test Results Coerdinad Chamical Analysis Customer Specification Test Results Annels Results Annels Results Customer Specification Test Results Customer Specificat	Job No:	344313	Job Information	Certified Date: 12/7/13
Customer Part No: 1012483-001 Customer Po No: 14338-75373 Order No: 201403 Note: VJ O 7 5 3 7 3 3 A Part Information Part British No: 190240 Applicable Specifications Part Group: HT TOLL Piece Weight: 30.059 Applicable Specifications Type ASTNA (190 British Specification) Treat Customer Specification Test Results Customer Specification Test Results Continue of the state and inspected in accordance with Vision 1 to 1012 and 1 to 10	Containers:	S7521276 S752529 6		20601 Trailey industrial Ship To: Drive Taylor, MI 48180
Customer PO No: 143439-753733 Customer PO No: 143439-753733 Customer Special Customer Spe	Customer Part No:	1012483-001		
Note: Work No. 201403 Part No. HRB 4140-750-7240 Q&TES Part Information Name: Hot Roll Bars	Customer PO No:	143438-753733		Shipped day: 1000 ms
Part No. HRB 4140, 750;240 G&T ES Part Information Part Group: HT TOLL Pleas Weight: 30.059 Applicable Specification Specification Test Test Customer Specification Test Results Customer Specification Test Results Customer Specification Test Results Customer Specification Test Results Notes Notes Notes Notes Notes Test New Lab 181 N	Order No:	201403 A P P P P P P P P P P P P P P P P P P		
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all was manufactured, lested and imported in accordance with Vulctural Proplems and Manufactured, lested and imported in accordance with Vulctural Proplems and Manufactured in the Manufactured in the graduation of the metal manufactured in the USA. Intel Meaded and Manufactured in the Landau and Tenantal Intel Manufactured in the Control Meaded and Manufactured Control Meaded in the Control Mead	USA Bed p15	9 8 8 C 8 6 8 6 8 6 8 8 6 8 8 8 8 8 8 8 8	2 9 13 to 20 0 000 0 000 1 0 000 0	500 (1) 11 121 000
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% tempared martenake from the surface to the context. 70-12a epecifications	711. Processed maleria etst. Merted and Manu-	at is Quenched and Tempered - Stre lectured in the USA.	sa Free. No weld repair performed	
70-12a specificationa	nge Geuss Reading: *	15 ad of 100% tempered martenake ho	m the surface to the center.	
	ersking temp. > 1700 d	SCHWASTU ASTO-12s specificators		Company of the same of the sam

out 377069

	VICEN TREASURY FORCES TO Cross Crosk Treat Pethan, AL 35124 Tel (205) 620-6100 Fee (200) 620-5150	JOB MATERIAL CERTIFICATION
Job No: 344313	44313	Job information Cartifled Date: 1277/13
Containers: S	Containers: S7521278 S7525298	
		Test Results
Test No. 25756 Test Quench & Tamper Physician (LB) Description Tensis Walf 8-75 [Linesal Object [194] (T) Quench Temper 10,200 133,700 174	Temper Physiciae (Lbs) Yould auth [Ibergation Officet Iper) 120,700 12.4	Control (Libral) Libergation Gage RCA Marketa (HRC) National (HRC) (H
o 25757 Test Quench & Description	Test No. 25757 Test. Quench & Temper Information (Lbs) Description	(U.ba) Cheek (F) Rus Speed (Fless) Cheeksh Yesser Terre (F) None Seed (Fless) Cheeksh Terre (F)
	-	Ware Phristony. 127113
		ded Consoling Supply Supplying

Steel Bar Compar	ny Ins	pection	ection Certificate 1626286	1626286		EN 10204:2004-3.1
Customer	BOL	Ship Date	Ship Date Customer PO H	rien.	Customer Item	hem Description
	207240	06-Mar-2017 B86205	B96205	11144 ray 003	V016242	3/4 HR RD 4140/42MM 2012in SBQ OTSF FG MST

	25000 dot Like Esten Steel Job 808632	A hu GEBDAIL MONBOL	and was	completed from Estor	n Steel Job 808632.		1
All bundles listed	Parent control and seed from the control of the con	Value	Units	Heat Freating	Description	Value	
Chemistry	Carlon	0.4000			Temper Temp in Fahrenheit	500 - 2500	-
1	Managese	0.85000	PWGT		Austenitize Temp in Fahrenheit	1600 - 1700	-1
4	Phosphorus	0.01000	PMCT	SR TEMP P	Stress Relief Temp in Fahrenheit	500 - 2500	-
	Sulfur	0.02400	PMCT	MACABLISM-HT	Magnetism in Gauss	0 - 20	- 1
51	Silicon	0.25000	PMGT	TIME AT TEMP	Time at Temperature	Report	- 1
X	- and	0.12000	PWGT	QUENCH MEDIA	Ovench Media Requirements	P&W/O	- 1
2	Chronium	0.96000	PWG	STRESS FREE	Cert atress free	CERTIFIED	- 1
2	Molybdenum	0.18000	PWGT	HT4140-42QT	Quench & Temper	CONFORMS	- 1
N	Aluminum	0.03000	PWGT	Mill Processing	Description	Value	~ 1
5	Copper	0.17000	PWGT	KELT COUNTRY	Melted in Country	USA	- 1
A	Vanadium	0.00200	PWGT	ROLLED COUNTRY	Rolled in Country	USA	- I
€	Columbium	0.00200	PWGT	RED RATIO	Reduction Ratio	81.50	
X	Nitrogen	0.0000	PWGT	ASTM Slandard	Description	Value	200
Pes	Element Sum Limit	0.03400	PWGT	A193/193M-01	Grade 37	CONFORMS	_ 1
DI	Ideal Diameter	5.07000	IN	A434-90a-BC	ASTWA BC Tensile and Yield properties	CONFORMS	
Claminacs	Description	Value	Units	Structure	Description		
MACTO PTON	Report merro etch results.			PERCENT TH	Percent Tempered Martensite	80 - 100	
Geometri	Discernition	Value	Units	MICROSTRUCTURE	Reported Microstructure	Ē	
PATRICE DE	Diameter	0.7420 - 0.7580	IN	Tag Number	Oty Units	Length	
Name of the last	Description	Value	Units	022-1921471		20ft	- 1
30 000	1/16 inch from Ovenched End	95	HRC				
32	1	95	HRC				
33	1	95	HXC	ASTM A304			
24		95	HRC				
35	5/16 inch from Quenched End	95	HRC				
36	6/16 inch from Quenched End	95	HRC				
5	7/16 inch from Quenched End	>54	HRC				
28	8/16 inch from Quenched End	53	HRC				
65	9/16 inch from Quenched End	52	FRC				
330	10/16 inch from Ouenched End	20	HAC				
311	11/16 inch from Quenched End		HRC				
312	12/16 inch from Quenched End	48	HRC				
314	14/16 inch from Quenched End	46	HAC				
316	16/16 inch from Quenched End	**	KRC				
318	18/16 inch from Quenched End	45	FRC				
320	20/16 inch from Quenched End	42	HRC				
322	22/16 inch from Quenched End		FBC FBC				
324	24/16 inch from Quenched End	0,	HRC				
328		38	FRC				
332	32/16 inch from Quenched End	36	HAC				
Contract of the last		Value	Unis				

Units

Units DEGF DEGF GN

RED Units

Units

Bundle lags with Ealon Sleet identifiers reference the steet grado, heat, purchase order number, part number, product describtion and weight. Tested and centified in accordance with Ealon Steet's Quality Manual QM-00001 / Rev 3 / 2/26/13. We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

286.0

Tensile Strength in PSI Units

TENSILE PSI RLONGATION YIRLD PSI Mechanical

Description

Yield Strength in PSI Units Percent Elongation Percent Reduction in Area Brinell Surface

REDUCTION BRINELL SURF

Created on 06-Mai-2017

Thomas Snabes Corporate Metallurgist

48603 R4140-2H-20

TRA-156

IFICATE OF TEST **CERTIFICAT D'ESAIS**

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00001567 PART NUMBER/NUMÉRO DE PIÈCE Page 01 of 02

Certification Date 9-DEC-2016

Invoice Number S687318

SOLD TO: SHIP TO: ACIER OUELLETTE INC ACIER OUELLETTE INC. VENDU A: EXPÉDIÉ À: 22 BOULEVARD J-F KENNEDY 22 BOULEVARD J F KENNEDY ST JEROME QC J7Y 4B6 SAINT JEROME QC J7Y 4 4140/4142 HR HT BAR STRESS FREE 269/321 BHN Description: 2 RD X 20' R/L Line Total: 470 LB HEAT: M56776 ITEM: 506433 Specifications: ASTM A434 GR BC 06 ASTM A193 GR B7 14 ASME SA193 GR B7 ASTM A 322 13 CHEMICAL ANALYSIS MN P 0.89 0.011 S 0.033 0. SI NI CR MO 26 0.15 0.90 0.18 C 0.011 0.42 0.26 SN V CU AL NB N 0.003 0.24 0.008 0.024 0.003 1.40 RCPT: R966216 COUNTRY OF ORIGIN : USA MECHANICAL PROPERTIES YLD STR ULT TEN %ELONG %RED HARDNESS KSI IN 02 IN IN AREA BHN DESCRIPTION KSI 132.0 144.0 23.0 57.0 279 IDEAL DIAMETER : 5.34 IN GRAIN SIZE :5 - 8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des specifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives on frauduleuses en rapport avec le résultat des essais sont purissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession/Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-

JOANNE DESPRES

some prespection

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESAIS

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00001567 PART NUMBER/NUMÉRO DE PIÈCE Page 02 of 02

Certification Date 9-DEC-2016

Invoice Number S687318

SOLD TO:

ACIER OUELLETTE INC

SHIP TO:

ACIER OUELLETTE INC.

VENDU A:

EXPÉDIÉ À:

22 BOULEVARD J F KENNEDY

22 BOULEVARD J-F KENNEDY

ST JEROME QC J7Y 4B6

SAINT JEROME QC J7Y 4

Description:

4140/4142 HR HT BAR STRESS FREE 269/321 BHN

2 RD X 20' R/L

HEAT: M56776

ITEM: 506433

Line Total: 470 LB

VACUUM DEGASSED

MATERIAL IS FREE FROM MERCURY CONTAMINATION

THERMAL TREATMENT: OK

TREATMENT TEMP F TIME (MIN MEDIA

AUST **OUENCH** 1625 0

2.10

WATER

TEMPER

1400

QUENCHED @ 100 DEG F FOR 2.5 MIN MACRO: OK

MICRO1: OK

---------------COMMENTS

red ratio 11.5 to 1.0 melted and mfg in the USA

> The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ei-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des specifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couveit par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession/Par les présentes, nons certifions que le nutériel convert par ce rapport rencontre les spécifications décrites cihaut.

JOANNE DESPRES

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MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

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	CERT CODE:	DIE NUMBER	DATE OF SHIPMENT	OKDEK NO.	ORDER NO. MANIFEST NO.
	-	S 2222	Nov/03/2016	198958 - 1	259787
SHIP TO	CUSTOMER PO	ALLOY TEMPER	SALESMAN		
ACIER OUELLETTE		3	HOUSE ACCOUNTS	MADE IN CANADA	VADA
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION		CERTIFICA TION	
1" X 3/8" FLAT BAR	DT02222	1" X 3/8" FLAT BAR	~ ~	MILL TEST ASTM B221-14	

Mechanical Properties	Pro	perties																		
		Alloy				Test Date	Date	i l li	mate Te		Yield S	trength		ercent		ness mell c		3	Conductivity	
		6061				Oct/2.	Oct/27/2016	nl	43.50			39.30		18.40		88.2, 88.5, 87.9	6.7			
hemical Composit	Somp	osition								Control of the Property	Section of the section of									Section of the sectio
mper	Lot	Alloy	SI	굅	đ	찞	찞	占	Z	Z	Ħ	S	>1	2 8	Zr Bi	a	Sn	Ŋ	SO AI	Other
384191	A.11	6061	9.0	0.18	0.2	0.03	98.0	0.07	0	0.01	0.01 0	0	0	0	0 0	0	0	0	0 0 Remainder	der 0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale Quality Control Manager

over HC#11 FAL 12112

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer:

LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address:

4054 BOUL, LE CORBUSIER # 201

LAVAL, QC H7L5R2

commande Sapa / Sapa order #:

6050261

bon de commande / Purchase order #: OU-46056

de matrice / Die # : MS 9442

Description: 1 1/2"x 1/2"*FLAT BAR

Alliage & trempage / Alloy & temper: 6061 T6

Longueur / Lenght: 6097 mm

Contrôle / Control #: 68674-2

Coulée / Cast #: 66789 V

Dureté Rockwell E /

Min. requis /

Max. permis /

Rockwell E hardness: 95 HRE

Min. required: 88 HRE

Max. permitted: 100 HRE

Composition chimique typique / Typical chemical composition:

	Si	Fe	Cu	Mn	Mg	Cr	Zn	TI
6063	0.20 - 0.60	0.35 Max	0.107.100	0.10 A fax	0.45 - 0.90	0.10 Max	0.10 ta	0.107.4gx
5005	0,60 - 0.90	0.35 Liax	0.10 Max	0.10 / 1ax	0.40 - 0.60	0.10 Max	0.10 Max	0.1014ax
5005A	0.66- 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0,03 14ax	0.05 Max	0.05 Max
5061	0.40 - 0.80	0,70 Max	0.15 - 0.40	0,15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Ltax	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80		0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASIM 8-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre.

date: 2016-08-01

Yours truly,

Gilles Polletier

Technicien de la qualité

Quality technician

F.07.04 rev0 Rapport depropriétés mécaniques doc

Service Center Metals

Prince George, VA 23875 5850 Quality Way



CERTIFIED INSPECTION REPORT AND TEST RESULTS

4 5 A

4 -B221-14 StencilCont 20A-200/8 Rev-A 925726 OUR ORDER NUMBER TION

25 1100						
						CEOTICICAT
			MANIFEST NUMBER	DIE NUIABER	DATE OF SHIPMENT	Central
			338176	MRB0479	7/20/2017	ASTM-E
			CUSTOMER PO	ALLOY / TEMPER	SALESPERSON	SPECIFICATI
			C74707	6061-T6511	D.Schroeder (Canada)	AMA
				11016000000		DIAIL
		!	CUSTOMER PART NUMBER	DESCRIPTION		
Quantity Certified	1,140 lbs	16pcs	MRB0479	MQRB 1.000x5.000	00	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-76511 also meet the requirements of 6061-76.

This product is RoHS-2, REACH, and DFARS compliant.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

Test Date Ultimate Tensile Yield Strength Percent Elongation	40b min max min max	46.50 15.60
	Tests Lot No. R 391404 K 39140b.	5/27/17

201708529

3

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 7/20/2017

SCR

Service Center Metals

5850 Quality Way Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Made U.

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ASTM-B221-14 StencilCont -AMS-QQA-200/8-Rev-A CERTIFICATION SPECIFICATION D.Schroeder (Canada) 7/20/2017 DATE OF SHIPMENT SALESPERSON MQRB 1.000x5.000 6061-T6511 MRB0479 ALLOY / TEMPER DESCRIPTION DIE NUMBER MRB0479 CUSTOMER PART NUMBER 338176 C74707 MANIFEST NUMBER CUSTOMER PO 16pcs 1,140 lbs Quantity Certified

revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6. We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification

This product is RoHS-2, REACH, and DFARS compliant.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

Chemical Composition for Aluminum Alloy 606	omposition	n for A	luminu	m Alloy	/ 6061							å	Others	
Cast#	Lot No.	Alloy	छ।	미	리	M	Mg	ঠ	Z	i=l	Æ	Each	<u>Total</u>	Melt Source:
001J170406Y 201708529 6061	201708529	6061	0.76	0.40	0.33	0.10	0.92	0.09	0.05	0.04	97.32	0.05	0.15	United States of America
001J170524A 201708529	201708529	6061	0.74	0.37	0.33	0.11	0.87	0.11	90.0	0.03	97.38	0.05	0.15	United States of America
05141704	201708529	6061	0.74	0.40	0.33	0.10	0.92	0.08	0.07	0.02	97.34	0.05	0.15	United States of America
05171701	201708529	6061	0.76	0.36	0.30	0.11	0.86	0.09	0.07	0.03	97.42	0.05	0.15	United States of America

SCM is ISO 9001-2015 certified

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 7/20/2017

SCM products are melted and extruded in the USA

Pey 9/8/16

245 / #41-1/43-12 ACIER OUELLETTE INC P.O. - AC7730 S.O. - 394920

48392 #13

Material Test Report

Manifest: 704227

Ticket: 1658808

Our Order: 876180 - 1

Cust P.O.: 787365

Die: ES04036

Part: 5131-8954

Alloy Temper: 6061 T6511

Description: 1.250 x 3.000 RECT. BAR

Print Date: 12/12/16

				Chemical	Composi	tion				
					•				Maxir	nun
CastNum	Si	Fe	Cu	Mn	Mg	Cr	Zn	L	OtherEach	OtherTotal
34827	0.57	0.24	0.19	0.08	0.85	0.07	0.02	0.01	0.05	0.15

				rength ksi	ties		
Sample ID	Cast#	Lot#	Test Date	<u>Ultimate</u> <u>Tensile</u>	Yield 2% offset	Elongation 2" gage length	
66813	34827	All	12/6/16	48.37	44.45	17.5	

Applicable Specifications: ASTMB221-14

AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotte - Tensile Testing

Authorized:

Evan Eng, Quality Assurance Manager

LES ACIERS QUELLETTE INC. BARRE RONDE ALUMINIUM 6061-T6511 5.00" DIA X 144.0000"

PART NO.

PO/Rel OU-77076

Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du materiel ou les dornées resultent

Certificate of Mill Test Results BH. VIM-178182-001

de l'analyse faite par un laboratoire qualifie. SIGNE PAR: LUCY TRUGLIO

Pg 1/1



CERTIFIED TEST REPORT http://Online.KalserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO MI 49048

CUSTOMER PO NUMBER: VIM-635658-3		R37/STK		CT DESCRIPT		DD 5.000 +/-,017
KAISER ORDER NUMBER: 6007370	LINE ITEM:	SHIP DA 04/19/		O290	6061	TEMPER. T6511B
WEIGHT SHIPPED	QUANTITY: 4.000 PC	87. NUM S 61542		F/THKNS:	WIDTH:	12.000 FT
SHIP TO:			SOLD T	D:		

THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, PQ H4S 1A7 CANADA THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, PQ H4S 1A7 CANADA

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG*	HARI	DNESS	CONDUCT.	BEND
200020290	0001	C001	51.8	47.6	15.6	RE	94	N/A	N/A
20020290	0001	0002	57.3	47.2	16.0	RE	91	N/A	N/A
200020290	0002	0001	58.2	54.7	15.0	RE	94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximiza	0.80	0.70	0.40	C.15	1.20	0.35	0.25	0.15	NA	NA	MA	0.05	0.15
Minimum	0.40	0.00	0.15	C.00	C.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
106110	.72	.29	.26	.11	.93	.10	.19	.02	. 00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENGILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96961 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Pahricated Products, LLC hereby certifies that motal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Minu & Macnowsie

Plant Serial: 00227335 Kaiser Order Number: 6007370

Line Item: 003

Page 1 of 1

TR+ 904 5144

Test de dureté Rockwell **Rockwell Hardness Test**

Client / Customer:

LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address:

4054 BOUL. LE CORBUSIER # 201

LAVAL, QC H7L5R2

commande Sapa / Sapa order #: 7010442

bon de commande / Purchase order #: OU-47042

de matrice / Die #:

MS 16001

Description: 2.25' DIA. ROD

Alliage & trempage / Alloy & temper: 6061 T6

Longueur / Lenght: 6097 mm

Contrôle / Control #: 83103-1

Coulée / Cast #: 68252 L

Dureté Rockwell E /

Min. requis /

Max. permis /

Rockwell E hardness: 96 HRE

Min. required: 88 HRE

Max, permitted: 100 HRE

Composition chimique typique / Typical chemical composition:

	SI	Fe	Cu	Mn	Mg	Cr	Zn	π
6063	0.20 - 0.60	0,35 Max	0,10 Max	0.10 Max	0,45 - 0,90	0.10 Max	0,10 Max	0.10 Mox
6005	0.60 - 0.90	0,35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0,10 Max	0,10 Max	0.10 Max
6005A	0.66-0.74	0.14 - 0.28	0.08 - 0.16	0,18 - 0.26	0,46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0,15 Max	0.80 - 1.20	0,04 - 0.35	0,25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80		0,20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,

date: 2017-02-08

Yours truly,

Gilles Pelletier

Technicien de la qualité Quality technician

F.07.04 rev0 Rapport depropriétés mécaniques.doc

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ACIER OUTILETTE DIV-VALLEYFIELD BARRERONDE ACTION OF AUTOMART NO. PART NO.

and sopie conforme du rapport fourai par ac contrasseur du materiel ou les données resalta Note that the problem of the second s

he Usanlyse fare par un laboratorie qualitie SICINE PAR:

Certificate of Mill Test Results

North American Stuinless Canada Inc. 740 Imperial Road North Guelph, ON N1K1Z3

MAS

Canada

TEST REPORT METALLURGICAL

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Date: 6/06/2017 Steel: 303

Page:

Finish: ST

Red Ratio: 32.0 :1 Corrosion:

> PRODUCT DESCRIPTION:

2011/65/EU.ROHS. ZAF-AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION COMPLIES W/REQUIREMENTS OF DEAR 252,225-7009 EU DIRECTIVE

REMARKS:

NAS Order: IN 0248251 02

VIM641730

Your Order:

Pieces Commodity Code Mark ------Length-----144.00 1,330 Weight Size 1.5000 Skid # Diameter Product 1d B16169

Lab Accreditation Bureau, 190/12C 17025, Cortificates L2323 Chemical Analysis per ASTM A751/14a CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) ANALYSIS CHEMICAL

			The second secon				The same of the sa				
NAS Heat	ð	n %	CO %	CR &	* B	W EE	NO %	NO % N % NI %	NI %	* 0.	
333в	20	.0329	.1085	.1085 17.0530	.3225	.3225 1.8665	.3105	.0466	.0466 8.5265	.0275	
		8 0	% HS								
		.3145	-4000								

PROPERTIES MECHANICAL

Product Id	40	2	.2YS	DTS	Z.	2129	
	u	Mo.	KSI	KSI	je	4 ab	
BI6169 7	RL	152.0	44.00	87.00	87.00 58.00 46.00	46.00	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dopt. Mgr.

C COC / SO / S

Doc No. 259890 Indexed 12Jun17 by msup2

E. VIN-520284-001

NAS

North American Stainless Canada Inc. 740 Imperial Road North Gudph, ON NIK 173 Canada

4

Certificate: 300262

Customar: 007205 001

de Paralyse faite par un faben donner in SIGNE PAR:

Nous certifons que le document repasson la set une copie conforme du rapport l'acta y as le fournisseur du materiel ou les assances assult

PO:Rel AC00009030

ACTER OUELLETTE DIV-VALLEYFIELD

PLAN 144,0000"

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

TEST REPORT

METALLURGICAL

Date: 6/06/2017

Page:

Steel: 303

Pinish: 3T

Corrobion:

REMARKS:

NAS Order: IN 0248251 02

Red Ratio: 32.0 :1

PRODUCT DESCRIPTION:

VIM641730

Your Order:

Round Bar, Annealed, Smooth Turned, Cold Finished UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/15 AMS 5640V TYPE 1, QQS-764B CONDITION A SUZZAL TEMP 1900F MIN

IN USA FREE FROM MERCURI AND LOW MELTING ALLOY CONTAMINATION 2011/65/EU.RoHS. EAP+AOD+CC. NO WELD REPAIR. MELIED AND MEG COMPLIES W/REQUIREMENTS OF DYAR 252,225-7009 EU DIRECTIVE

r Siza WaightLongth Mark Pieces Commodity Code	00 880 144.00 4 1
id # Diameter	1.5000
Product Id Sk	BI 6178 7

Lab Accreditation Bureau, ISO/IEC 17025, Certificates L2323 Chumical Analysis per ASTM A751/14a CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) ANALYSIS CHEMICAL

	The Party of the P										
MAS Eoat	E	S,	CO %	CR %	CO % NO. %		% O3	* ×	NI %	2, 5	
3338	SD	.0329	.1085	.1085 17.0530	.3225	1.8665	3105	.0466	.0466 8.5265	.0275	
		e 01	% IS								
		.3145	.4000								

PROPERTIES MECHANICAL

	4					
Product Id	- H	NB No.	.2YS KSI	UTS XSI	ž Ž	Elng % 40
BI6178 7	ri ri	152.0	44.00	44.00 87.00	58.00	46.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Mgr. Technical

F10513013

Doc No. 259890 Indexed 12Jun17 by msup2

ACHER OUELLETTE DIV-VALLEYFIELD
SASSA KONDE ACER DOX. 303
DIA X 144,0000"
FAST NO.

PO/Rel AC0000030

Nous certificats que le document opuséran en est une copie conforme du ray en bontan par le

and the profitie de Panalssorten par SIGNE PAS

BL VIM-520234-(m)

...

NAS

North American Stainless Canada Inc. 740 Imperial Road North Guelph, ON N1K1Z3 Canada

TEST REPORT METALLURGICAL

Ghent, KY 41045-9615 (502) 347-6000 6870 Highway 42 East

Date: 6/66/2017 Steel: 303

Page: 1

Firiah: ST

Red Ratio: 32.0 :1 Corrosion:

REMARKS:

NAS Order: IN 0248251 02

PRODUCT DESCRIPTION:

VIM641730

Your Order:

007205 001

Customor:

Corrificate: 300262

Round Bar, Annealed, Smooth Turned, Cold Finished UNS 30300, ASTM AS82/12 EN 10204 3.1, ASTM A484/15 AMS 5640V TYPE 1, QQS-764B CCNDITICS A SUMMERAL TEMP 1900F MIN

IN USA FREE PROM MERCURY AND LOW MELTING ALLOY CONTAMINATION 2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG COMPLIES W/REQUIREMENTS ON DFAR 252,225-7009 ED DIMECTIVE

Pieces Commodity Code MAXX -----Langth-----144.00 887 Weight Sizo 1.5000 Skid # Diamoter Product id BI6178 8

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323 Chemical Analysis per ASTM A751/14a CM(Country of Mett) ES(Spain) US(United States) ZA(South Africa) JP(Japan) ANALYSIS CHEMICAL

					The second second second second						
MAS Heat	ð	S,	% 00	£ £	cu *	* 100	MO % NI %		* 10	* 4	
3338	Sn	.032	329 .1085	.1085 17.0530	.3225	1.8665	1.8665 .3105	1	.0466 8.5265	.0275	
		S	% IS								
		.3145	2 .4000								

PROPERTIES MECHANICAL

C)	00	
Elng % 4D	58.00 46.00	
3	ı	
UTS KBI	87.00	
.2YS KSI	44.00	
HIB No.	152.0	
400	R	
Product Id	B16178 8	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dopt. Mgr. Technical

640642017

Doc No. 259890 Indexed 12Jun17 by msup2

.co,49626

CERTIFICAT D'ESAI

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

ROSS PART NUMBER/NUMÉRO DE PIÈCE

Page 01 of 01

Certification Date 9-MAR-2007

Invoice Number T232578

Description: 1018 CF BAR ASTM Al08

2-1/2 X 6 FLATS 6'0" (72.0") REMNANT HEAT: 207H175 ITEM: 50318 Line Total: 306 LB

ITEM: 503180

Specifications:

ASTM A108 03 ASTM A29 04

CHEMICAL ANALYSIS

_______ C MN SI NI CR MO 0.01 0.16 0.02 0.67 0.24 0.08 0.07 0.017

CU AL V 0.045 0.001

RCPT: R692775 MILL: NIAGARA LASALLE CORPORATION

COUNTRY OF ORIGIN : USA

GRAIN SIZE :5 - 8

MATERIAL IS FREE FROM MERCURY CONTAMINATION STRAND CAST

NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

GRAIN FINE (5 8)

SOURCE/METLED ISG STEELTON (USA)

CAST BLOOM

RED. RATIO 22.5:1

Jeogena 1010 12 6" Kolyled 9 Mars 2007

The above duti were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut-mentionnées sont transcrites du scriffent d'esquis du munufacturier après vérification de l'état complet des specifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a purt of the description. Par les présentes, nous certifions que le matériel couvert pur ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou traudulouses en repport avec le résultat des essals sont punissables en vertu des luis fédérales.

Material did not come in contact with mercury while in our possession/Pur les présentes, nous certifions que le mutériel couvert par ce rapport rencontre les spécifications décrites ei-

JOSEE DUBE

MANAGER QUALITY ASSURANCE GÉRANI' DE L'ASSURANCE QUALITÉ

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MROY DATE: SE	P 1	8 20	17	_		PO / BATCH	H NO.: po376	671/413848
MATERIAL CERT REC'D: QUANTITY RECEIVED: 6459 QUANTITY INSPECTED: 6459 QUANTITY REJECTED:		25 Q		_	THI SHE	CKNESS ORDE CKNESS RECE EET SIZE ORDE ET SIZE RECE	IVED: 4X8	050 050
DESCRIPTION	(Ct	CR neck (N)				COMMEN	TS	
SURFACE DAMAGE	Y	N						
CORRECT FINISH	8	N						
CORROSION	Υ	0						
CORRECT GRAIN DIRECTION	(1)	N						
CORRECT MATERIAL PER M-DRAWING	(V)	N	AStr	7A240				
CORRECT THICKNESS	(A)	N		<i>10</i>				
PHOTO REQUIRED	Y	0	1111111					
CORRECT REF # TO LINK CERT CORRECT MATERIAL IDENTFICATION	Y	N	H/#	0646	_			
CORRECT M# ON THE MATERIAL	(X)	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N		15			-	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(2)						
CLIT SAMPLE DIFFOR	- 05	140	FEDIAL	AND DOES	0.0			
CUT SAMPLE PIECE	: OF	IVIA	JOD DE	AND PREF SULTS BEI	OH	M A HARDNE	SS CHECK.	
			HRC	HRB	_0	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				11110		DUNA	ט אטט	WEDSTER
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READIN	VG							
	<u>te</u>	sters	located in	the Quality	Offic	<u>ce</u>		
QC 18 INSPECTION				7 7 1 1 1 1 1 1 1		ENGINEEE	ING SIGNO	EE (if required)
DAS		ALC: NO	A the second			ENGINEER	IING SIGNOR	F (if required)
INSPECTED BY: 5				S	iGN	NED OFF BY:		
DATE: SEP 1 8 2	017					DATE:		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

0

PURCHASE MATERIAL: AISI 304/316 SS SHEET ANNEALED

DAS 0-89 MIL-S-5059 OR AMS 5513 (304) OR AMS 5624 (316) OR ASTM A240 OR ASTME SA240 SPECIFICATION

FINISH:

DART M-NUMBER IDENTIFIER 2D 2D NONE 4P 6P 6P 77 89

FINISH UNPOLISHED No. 1 UNPOLISHED No. 2B POLISHED No. 3 POLISHED No. 6 BUFFED No. 6 BUFFED No. 6

U

PART NUMBER:

M304S TT GA #P

WHERE "TT" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

THICKNESS NOM. THICK.

(IN) 0.01875 0.028125 0.028125 0.034375 0.034375 0.04375 0.04375 0.05625 0.0625 0.0625 0.09375 0.09375 0.126375 0.126375 0.126375 0.126375 0.126375 0.17875

0.024 0.033 0.033 0.033 0.035 0.035 0.035 0.014 0.035 0.016 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035

REV. D SHEET 1 OF 1 SCALE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M304S 304/316 SS SHEET CHECKED
MFG. APPR.
APPROVED
DE APPR.
DE APPR. DESIGN DRAWN

15.01.06 12.09.20 09.06.01 01.09.24

AJS MB

DS CP

REFORMAT DWG, ADD ASTMIASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A

DESCRIPTION

NEW ISSUE

DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 28 (ZN B5).

O В REV.

D ADDED GAUGES 0-7.

RELEASED

ECN 15-522 9

2015 FEB 04

15.01.06

۵



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017 PO Print Date 9/5/2017

Page Number 1 of 8

Order From:

ACIER OUELLETTE INC. 935 BOUL. DU HAVRE VALLEYFIELD, QC J6S 5L1 CA

VC-CAM002

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7-MA

CANADA

Contact Name

Vendor Phone

Ship To Contact

800 667 4248

Buyer

Chantal Lavoie

Customer POID

10127-2607

Customer Tax # Terms

Net 30 CAD

Currency

FOB

FCA - (Free Carrier)

Ship To Phone Ship Via:

Yours ppd

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Delivery Comments						
1	M303R1.500	M303R1.500	9/11/2017		12.00	\$19.55	\$234.60
	111303111.300		Yes		f		
			9/11/2017		122	F .	
	MATERIAL: AISI 303 SS RO	UND BAR AS PER ASTM	A582		Join and the second	1	

NOTE: AISI 304/316 NOT ACCEPTABLE

\$234.60

M303R0.750

303 Round Bar 0.750

9/11/2017

Yes

9/11/2017

Line Total:

\$4.43

\$53.16

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

\$53.16

PO Instructions: QUOTATION SOU0055250



VALLEYFIELD, QC J6S 5L1

935 BOUL. DU HAVRE

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017 PO Print Date 9/5/2017

Page Number 2 of 8

Order From :

VC-CAM002

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

CA

Contact Name

Vendor Phone

800 667 4248

Ship To Contact Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

3

M304R0.375

304 ROUND BAR 0.375

9/11/2017

Yes 9/11/2017

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

M304S18GA

304/316 .050 Sheet

9/11/2017

Yes

9/11/2017

PURCHASE MATERIAL: AIS1 304/316 SS SHEET

ANNEALED

SPECIFICATION: MIL-S-5059

OR AMS 5513 (304) OR AMS 5524 (316)

ORASTMA240

OR ASME SA240

Buyer

Customer POID

Customer Tax #

Terms Net 30 Currency CAD

FOB

FCA - (Free Carrier)

Chantal Lavoie

10127-2607

12.00 f

\$1.03

\$12.41

(, Э

RA-9-11

Line Total:

\$12.41

64.00 sf B(7)

\$5.36

\$342.72

5017-9-1B

Line Total:

\$342.72

PO Instructions: QUOTATION SOU0055250



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017 PO Print Date 9/5/2017

Page Number 3 of 8

Order From:

ACIER OUELLETTE INC. 935 BOUL. DU HAVRE VALLEYFIELD, QC J6S 5L1 CA

VC-CAM002

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

800 667 4248

Customer POID

Chantal Lavoie

Customer Tax # Terms

10127-2607 Net 30

CAD

Ship To Contact Ship To Phone

Yours ppd

Currency **FOB**

Buyer

FCA - (Free Carrier)

Ship Via: Ship Acct:

9/11/2017

M304S20GA

304/316 .040 Sheet _

Yes 9/11/2017

sf

\$3.91

\$250.14

PURCHASE MATERIAL: AIS1 304/316 SS SHEET

ANNEALED

SPECIFICATION: MIL-S-5059

OR AMS 5513 (304) OR AMS 5524 (316)

ORASTMA240 OR ASME SA240 64.00

Line Total:

\$250.14

M1018R0.625

M1018R0.625

9/11/2017

Yes

9/11/2017

\$1.04

\$20.79

MATERIAL: AISI 1018-1025 ROUND BAR AS PER

MIL-S-7097 OR ASTM A108

Line Total:

\$20.79

M1018R0.500

1018-1025 round bar .500

9/11/2017

Yes

20.00

20.00

\$0.67 \$13.35

MATERIAL: AISI 1018-1025 ROUND BAR AS PER

MIL-S-7097 OR ASTM A108

9/11/2017

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017 PO Print Date 9/5/2017

Page Number 4 of 8

Order From:

CA

VC-CAM002

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name Vendor Phone

800 667 4248

Customer POID Customer Tax #

Chantal Lavoie

10127-2607

ACIER OUELLETTE INC.

VALLEYFIELD, QC J6S 5L1

935 BOUL. DU HAVRE

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Terms

Net 30 CAD

Currency **FOB**

Buyer

FCA - (Free Carrier)

Ship Acct:

M1018B0.250x1.500

9/11/2017 1010-1025 Steel Bar .250 x 1.500

Yes 9/11/2017

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570

OR CSA G40-21, 38W/44W/50W/60W/70W

1010-1025 Steel Bar 2.500 9/11/2017 x 6.000

9/11/2017

Yes

Line Total:

\$1.86

\$22.33

\$13.35

Line Total:

\$22.33

3.00

\$165.32

\$495.95

f

3.00

f

12.00

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR CSA G40-21, 38W/44W/50W/60W/70W

M4140HR0.750

M1018B2.500X6.000

4140 round bar .750

9/11/2017

Yes 9/11/2017

Line Total:

\$495.95

\$4.67

\$14.01

SAW CUT CHARGES INCLUDED IN PRICE MATERIAL: AISI 4140 H ROUND BAR PER

AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400

PO Instructions: QUOTATION SOU0055250

Note:

8179-11.



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017 PO Print Date 9/5/2017

Page Number 5 of 8

Order From:

CA

ACIER OUELLETTE INC. 935 BOUL. DU HAVRE VALLEYFIELD, QC J6S 5L1 VC-CAM002

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

800 667 4248

Buyer

Chantal Lavoie

Customer POID Customer Tax#

10127-2607

Ship To Contact

Ship To Phone

Terms Currency Net 30 CAD

Ship Via:

Yours ppd

FOB

FCA - (Free Carrier)

Ship Acct:

9/11/2017 FN

3.00

\$19.50

\$58.49

\$14.01

M4140HR2.00

M4140HR2.00

Yes 9/11/2017

SAW CUT CHARGES INCLUDED IN PRICE MATERIAL: AISI 4140 H ROUND BAR PER

AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400

Line Total:

Line Total:

\$58.49

M6061T6B0.375X01.000

6061T6 BAR .375 x 1.00

9/11/2017 Yes

9/11/2017

20.00 L f

\$1.20

\$23.94

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

Line Total:

\$23.94

PO Instructions: QUOTATION SOU0055250



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017 PO Print Date 9/5/2017

Page Number 6 of 8

Order From:

ACIER OUELLETTE INC. 935 BOUL. DU HAVRE VALLEYFIELD, QC J6S 5L1 CA

VC-CAM002

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

800 667 4248

Ship To Contact

M6061T6B0.500X1.500

Ship To Phone Ship Via:

Yours ppd

Ship Acct:

6061T6 BAR 0.500 X 1.500

Yes

9/11/2017

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116

ASTM B221

Buyer

Customer POID

Customer Tax #

Terms Currency

FOB

Chantal Lavoie

10127-2607

Net 30 CAD

FCA - (Free Carrier)

20.00

\$2.39

\$47.87

f

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR

Line Total:

\$47.87

M6061T6B1.000X5.000

6061T6 BAR 1.000 X

9/11/2017

12.00

\$17.97

\$215.66

5.000

Yes 9/11/2017

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

Line Total:

\$215.66

PO Instructions: QUOTATION SOU0055250



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017 PO Print Date 9/5/2017

Page Number 7 of 8

Order From:

ACIER OUELLETTE INC. 935 BOUL. DU HAVRE VALLEYFIELD, QC J6S 5L1 CA

VC-CAM002

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

800 667 4248

Yours ppd

Buyer **Customer POID**

Customer Tax # Terms

Currency

Chantal Lavoie

10127-2607

Net 30 CAD

FOB

FCA - (Free Carrier)

M6061T6B1.250X3.000

6061T6 BAR 1.250 X

Yes

9/11/2017

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

3.000

3.00

\$13.48

\$161.76

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

Line Total:

\$161.76

M6061T6R5.000

ASTM B221

6061-T6 Round Bar 5.000"

9/11/2017

Yes

9/11/2017

\$71.06

\$213.18

SAW CUT CHARGES INCLUDED IN PRICE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR OO-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR

Line Total:

\$213.18

PO Instructions: QUOTATION SOU0055250



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017 PO Print Date 9/5/2017

Page Number 8 of 8

Order From:

ACIER OUELLETTE INC. 935 BOUL. DU HAVRE VALLEYFIELD, QC J6S 5L1 CA

VC-CAM002

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

800 667 4248

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

M6061T6R2.250

6061-T6 Round Bar 2.250"

9/11/2017

9/11/2017

Yes

Chantal Lavoie Buyer

Customer POID

Customer Tax # 10127-2607 Net 30 Terms CAD Currency

FOB

FCA - (Free Carrier)

2.00

\$14.36

\$0.00

\$28.72

\$28.72

\$0.00

SAW CUT CHARGES INCLUDED IN PRICE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR

ASTM B221

71401-45

PROCUREMENT QUALITY CLAUSESQ 9/11/2017

No

9/11/2017

Procurement Quality Clauses A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier A043 retension of quality documents

Line Total:

Line Total:

\$0.00

PO Total:

\$2,209.08

PO Instructions: QUOTATION SOU0055250

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100

requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

Change Date:

9/5/2017



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7 P10:37671

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2017/08/30

Revision N°

0

U

Prices valid until

2017/09/06

Your Order No

Processed by

BERNARD

Salesman

FRED

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

			. ugc						
Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amoun
COUPE A LA SCIE SCIE 1 X 3'		1.00	UN	1.00		5.00			5.00
ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00	PI_\$CLB	3.00	PI	17.83			53.49
COUPE A LA SCIE SCIE 1 X 3'		1.00	UN	1.00		5.00			5.00
FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610 1 X 20'	9.00	20.00	PI_\$CLB	1.00	UN	23.94			23.94
FLAT ALU 1/2 X 1 1/2 6061-T6 (20) FAL-12112-20 2465 1 X 20'	18.00	20.00	PI_\$CLB	1.00	UN	47.87			47.87
FLAT ALU 1/2 X/3 6061-T6 (20) FAL-123-20 2485 1 X 20' NO FAL-123-20	36.20	20.00	PI_\$CLB	1.00	UN	96.27			96.27
FLAT ALU 1 X 5 6061-T6 (12) FAL-15-12 2533 1 X 12' 2-3 DAYS	70.49	12.00	PI_\$CLB	1.00	UN	215.66			215.66
FLAT ALU 1 1/4 X 3 6061-T6 (12) FAL-1143-12 2457 1 X 12'	52.87	12.00	PI_\$CLB	1.00	UN	161.76			161.76
FLAT ALU 2 X 3 6061-T6 (12) FAL-23-12 2559 1 X 12'	84.67	12.00	PI_\$CLB	1.00	UN	242.12			242.12
ROUND ALU 5 6061-T6 (12) RAL-5-12 5164	69.12	3.00	PI_\$CLB	0.25	UN	812.72			203.18

préavis en fonction de l'évolution des prix de l'acier sur le marché. Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date:

Next Page...



935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer No

CLI0001056

Date

2017/08/30

Revision N°

0

Prices valid until

2017/09/06

Your Order No

Processed by

BERNARD

Salesman

FRED

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

			rage						
Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
SS303 ROUND BAR 1 1/2" N 1 X 12' R/L 2-3 DAYS	0.00	12.00	PI	12.00	UN	19.55			234.60
ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 1 X 12' R/L	18.02	12.00	PI_\$CLB	12.00	PI	4.43			53.16
ROUND SS 3/8 304 (12R) RSS-38-12 5763 1 X 12' R/L	4.51	12.00	PI_\$CLB	12.00	PI	1.03			12.41
SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 2 X 4' X 8'	134.40	64.00	PI2_\$CLB	2.00	UN	171.36			342.72
SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 2 X 4' X 8'	100.48	64.00	PI2_\$CLB	2.00	UN	125.07			250.14
ROUND CR 5/8 1018 (20R) RCR-58-20 5350 1 x 20' r/l	20.80	20.00	PI_\$CLB	20.00	PI	1.04			20.79
ROUND CR 1/2 1018 (20R) RCR-12-20 5266 1 x 20' r/l	13.36	20.00	PI_\$CLB	20.00	PI	0.67			13.35
FLAT CR 1/4 X 1 1/2 1018 (12R) FCR-14112-12 1 x 12' r/l	15.30	12.00	PI_\$CLB	12.00	PI	1.86			22.33
FLAT CR 2 1/2" X 6" N 1 X 3' 2-3 DAYS	0.00	1.00	UN	1.00	UN	495.95			495.95
ROUND 4140 HEAT TREAT 3/4 (20R) R4140-34H-20 4948	4.51	3.00	PI_\$CLB	3.00	PI	3.00			9.01

préavis en fonction de l'évolution des prix de l'acier sur le marché. Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date:

Next Page...



935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2017/08/30

Revision N°

0

Prices valid until

2017/09/06

Your Order No

Processed by

BERNARD

Salesman

FRED

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

3

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
COUPE A LA SCIE		1.00	UN	1.00		10.00			10.00
SCIE 1									
1 X 3'									128.42
ROUND ALU 4 6061-T6 (20)	44.29	3.00	PI_\$CLB	0.15	UN	856.13			120.72
RAL-4-20 5162						10.00			10.00
COUPE A LA SCIE		1.00	UN	1.00		10.00			10.00
SCIE 1									
1 X 3'		2.00	DI ACLD	2.00	PI	11.86			23.72
ROUND ALU 2 1/4 6061-T6 RANDOM	9.34	2.00	PI_\$CLB	2.00	F1	11.00			
RAL-214-V 5145		1.00		1.00		5.00			5.00
COUPE A LA SCIE		1.00	UN	1.00		5.00			
SCIE 1									
1X2'	1		\$						3.95
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			*						
FRAIS_ENERGETIQUE									
						1			
						ĺ			
						1			

Total Weight (Lbs)

737.40

Important

This offer is based on availability and current pricing conditions that may be revised upon

Sub-total

2 689.84

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TVH-13 · · 349.68

Approuved and Accepted by:

Date :_

Total (\$CAD)